

- 6 -

Patent claims

1. A halogen lamp for motor vehicle headlights which has an electrical power consumption of between 50
 5 watts and 100 watts and has at least one incandescent filament (5, 5', 5''), characterized in that the at least one incandescent filament (5, 5', 5'') is formed as a single coil, the dimensions and/or geometry of which are matched to an operating voltage of at least
 10 20 volts, the length of the single coil having a value in the range from 4.0 mm to 6.5 mm.
2. The halogen lamp as claimed in claim 1, characterized in that the single coil (5, 5', 5'') has at least 20 turns.
- 15 3. The halogen lamp as claimed in claim 1, characterized in that the wire diameter of the single coil (5, 5', 5'') is between 0.11 mm and 0.14 mm.
4. The halogen lamp as claimed in claim 1, characterized in that the outside diameter of the
 20 single coil (5, 5', 5'') is between 1.4 mm and 2.0 mm.
5. The halogen lamp as claimed in claim 1, characterized in that the ends (5a, 5a', 5a'') of the single coil (5, 5', 5'') are provided with supporting means (8, 8', 8'').

$$\frac{h}{d} = \frac{2n}{\pi}$$

$$\frac{h}{d} = \frac{2n}{\pi}$$

$$2h = 2 \cdot \frac{2nd}{\pi}$$

$$h = \frac{2nd}{\pi}$$

$$d = \frac{2h\pi}{2n}$$